

CLAIMS:

1. A light emitting device comprising a light emitter disposed above a base substrate and a coating material applicable over the light emitter, the base substrate having a projecting platform on which the light emitter is mounted, such that the projecting platform supports the light emitter at a prescribed distance from the surrounding base substrate.
2. A device according to claim 1, wherein said projecting platform is formed as an integral part of the base substrate.
3. A device according to claim 1, wherein said projecting platform is a discrete component, attachable to said base substrate.
4. A device according to claim 3, wherein said projecting platform and said base substrate are fabricated from different materials.
5. A device according to claim 4, wherein said base substrate comprises a metal, and said projecting platform comprises a material able to efficiently dissipate heat generated by said light emitter.
6. A device according to claim 1, wherein said base substrate comprises a planar base portion and a sloping wall portion to provide reflection of light emitted by said light emitter.
7. A device according to claim 6, wherein the sloping wall is of frusto-conical form surrounding the projecting platform so as to provide a generally annular planar base portion around said projecting platform.
8. A device according to claim 1, wherein the base substrate is coated with a reflective medium, such as silver.
9. A device according to claim 8, wherein the reflective coating covers the surface of said projecting platform.

10. A device according to claim 1, the coating material containing a fluorescent or luminescent substance to absorb light of one wavelength and re-emit light of a different wavelength.

5

11. A device according to claim 10, wherein the fluorescent or luminescent substance comprises an inorganic dye.

10

12. A device according to claim 1, including a lens to focus emitted light, the lens positioned over the light emitter and the coating material.

13. A device according to claim 1, wherein the light emitter is selected from the group of an LED and a laser diode.

15

14. A method of providing a light emitting device, the method comprising the steps of:

providing a base substrate having a projecting platform;

providing a light emitter having a top surface and side surfaces;

20

positioning the light emitter on said projecting platform such that the light emitter is supported at a prescribed distance from the surrounding base substrate;

25

applying over the light emitter a settable coating material containing a dye compound in such a manner that, when the coating material has set, the dye compound covering the light emitter is of a comparable thickness over the side surfaces as over the top surface of the light emitter, excess dye compound being deposited over said surrounding base substrate.

30

15. A method according to claim 14, including the step of applying a lens over the light emitter and the coating material to focus light emitted.

16. A method according to claim 14, wherein the dye compound comprises a fluorescent or luminescent substance to absorb light of one wavelength and re-emit light of a different wavelength.

17. A method according to claim 14, including the step of coating said base substrate with a reflective medium, such as silver.

18. A method according to claim 17, the reflective coating covering the
5 surface of said projecting platform.